

MASTER OF SCIENCE MAJOR IN DATACENTER SYSTEMS ENGINEERING

| SMU ID #: | Name: | | | | |
|--|--|---------------------------------------|------|----------|-------|
| Home Address: | | Home Phone: | | | |
| SMU email: | | Business Phone: | | | |
| ARTICULATION COURSE(S) | Course Title | Instructor | Hrs. | Semester | Grade |
| | | | | | |
| CORE COURSES - | - 15 hours | | | | |
| CS 7346 | Cloud Computing & Virtualization Technologies _ | · · · · · · · · · · · · · · · · · · · | 3 | | |
| CS 7349 | Data and Network Security | | 3 | | |
| ECE 7301 | Power Mgmt for Industrial & Mission Critical Fac | | 3 | | |
| OREM 7357 | Analytics for Decision Support | | 3 | | |
| CEE/ME 7380 _ | Mgmt of Industrial & Mission Critical Facilities | | 3 | | |
| Specialization 1 – 1 Specialization 2 – 1 | VES (see selections on back) 9 hours Facilities Infrastructure Management Data Engineering & Analytics Networks, Virtualization & Security Business | | | | |
| | | | _3_ | | |
| | | | _3_ | | |
| | | | 3 | | |
| of Engineering, Cox | VES - 6 hours – With approval of academic advisor x School of Business, Dedman College Departments | | | | |
| | | | 3 | | |
| | | | 3 | | |
| | TOTAL HOUR | RS (Minimum 30) | | | |
| APPROVED | Advisor / Date | Department Head / Date | | | |
| | Director of Grad Studies/ I | | | . 1. | ··· |

mesters to

allow some flexibility. Sample tracks for completion are shown below:

Fall - 2 courses Fall - 1 course/Spring - 1 course - year 1 - 2 courses Spring - 2 courses Fall - 1 course/Spring - 1 course - year 2 - 2 courses Fall - 2 courses Fall - 1 course/Spring - 1 course - year 3 - 2 courses Spring - 2 courses Fall - 1 course/Spring - 1 course - year 4 - 2 courses Fall - 2 courses Fall - 1 course/Spring - 1 course - year 5 - 2 courses Graduation in Fall term (2.5 years) Graduation in Spring term of year 5

Specialization in Facilities Infrastructure Management

CEE 7325 Disaster Management

CEE 7370 Facilities Planning

CEE 7366 Introduction to Facilities Engineering Systems

CEE 7369 Electrical Mechanical and Piping Systems for Buildings

CEE 7384 Energy Management for Buildings

EETS 7307 Telecommunications for Data Systems Engineering

OREM7347 Critical Infrastructure Protection/Security Systems Engineering

OREM 8363 Engineering Finance, ME 7330 Heat Transfer

ME 7335 Convection Cooling of Electronics

ME 7336 Intermediate Fluid Dynamics

ME 7344 Conductive Cooling of Electronics

ME/CEE 7383 Heating, Ventilating and Air Conditioning

ME 8385 Conduction Heat Transfer

ME 8387 Radiation Heat Transfer

CEE/ME 7381 Site Selection for Industrial & Mission Critical Facilities

Specialization in Data Engineering and Analytics

CS 7330 File Organization and Database Management

CS 7340 Service Oriented Computing

CS 7347 XML and the Enterprise

CS 8316 User Interface Design

CS 8321 Machine Learning and Neural Networks

OREM/CS 8331 Data Mining

OREM/CS 8337Information Retrieval

OREM 7352 Information System Architecture

OREM 7353 Information Systems Design Strategy

Specialization in Networks, Virtualization, Security

OREM7382 Information Technology Security and Risk Management

OREM 8364 Engineering Management

OREM 8356 Information Engineering: A Global Perspective

CS 7339 Computer System Security

CS 7344 Computer Networks and Distributed Systems

CS 7359 Software Security

CS 8343 Advanced Operating Systems (Virtualization)

CS 8349 Advanced Network and System Security

CS 8352/EE 8372 Cryptography and Data Security

EETS 7304 Network Protocols

EETS 8311 Intelligent Networks

Specialization in Business

OREM 8362 Engineering Accounting

FINA 6201 Managerial Finance

ITOM 6202 Management Decision Analysis

RE 6211 Real Estate Investment